

**ATTACHMENT B**  
**The B-C Models Results**

**Calculations Of Irrigation Requirements (1-in-10)**

**Rainfall Station:** Naples  
**Irrigation System:** Sprinkler  
**Irrigated Acreage:** 7797.00  
**Crop:** Turf Grass  
**Soil Type:** 0.40  
**Multiplier:** 1.33  
**Efficiency:** 0.75

Calculations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Average Rainfall (Inches)	1.88	1.93	0.96	2.05	4.42	8.17	8.36	8.18	8.69	4.09	1.56	1.32	51.61
Evapotranspiration (Inches)	1.93	2.21	3.78	5.09	6.66	7.44	7.88	7.51	6.47	5.00	3.22	2.26	59.43
Average Effective Rainfall (Inches)	0.77	0.80	0.45	0.99	2.14	3.78	3.95	3.79	3.77	1.82	0.70	0.56	23.52
1-in-10 Effective Rainfall (Inches)	0.62	0.67	-0.04	0.34	1.51	2.75	3.30	3.42	3.34	1.61	0.53	0.41	18.46
Average Irrigation (Inches)	1.16	1.41	3.31	4.10	4.52	3.66	3.93	3.72	2.70	3.18	2.52	1.70	35.91
1-in-10 Irrigation (Inches)	1.31	1.54	3.80	4.75	5.15	4.69	4.58	4.09	3.13	3.39	2.69	1.85	40.97

**1-in-10 Annual Supplemental Crop Requirement = 40.97 Inches**

**Annual Supplemental Crop Water Use:**

$$40.97 \text{ inches} \times 7797 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 11534.93 \text{ MG}$$

**1-in-10 Maximum Monthly Supplemental Crop Requirement = 5.15 Inches**

**Maximum Monthly Supplemental Crop Water Use:**

$$5.15 \text{ inches} \times 7797 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 1449.96 \text{ MG}$$

**Notes:**

Evapotranspiration was calculated using a modified Blaney-Criddle method.

Average effective rainfall is the amount that is useful to crops in an average year.

2-in-10 drought rainfall is the rainfall minimum expected with a probability of 2 year in 10.

2-in-10 effective rainfall is the amount that is useful to crops in a 2-in-10 drought rainfall.

Average irrigation is the net amount that should be required for maximum yields during an average year.

2-in-10 irrigation is the net amount that should be required for maximum yields during a 2-in-10 drought year.

**Calculations Of Irrigation Requirements (1-In-10)**

**Rainfall Station:** Naples  
**Irrigation System:** Sprinkler  
**Irrigated Acreage:** 9060.00  
**Crop:** Turf Grass  
**Soil Type:** 0.40  
**Multiplier:** 1.33  
**Efficiency:** 0.75

Calculations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Average Rainfall (Inches)	1.88	1.93	0.96	2.05	4.42	8.17	8.36	8.18	8.69	4.09	1.56	1.32	51.81
Evapotranspiration (Inches)	1.93	2.21	3.78	5.09	6.66	7.44	7.88	7.51	6.47	5.00	3.22	2.26	59.43
Average Effective Rainfall (Inches)	0.77	0.80	0.45	0.99	2.14	3.78	3.95	3.79	3.77	1.82	0.70	0.56	23.52
1-in-10 Effective Rainfall (Inches)	0.62	0.67	-0.04	0.34	1.51	2.75	3.30	3.42	3.34	1.61	0.53	0.41	18.46
Average Irrigation (Inches)	1.16	1.41	3.31	4.10	4.52	3.66	3.93	3.72	2.70	3.18	2.52	1.70	35.91
1-in-10 Irrigation (Inches)	1.31	1.54	3.80	4.75	5.15	4.69	4.58	4.09	3.13	3.39	2.69	1.85	40.97

**1-in-10 Annual Supplemental Crop Requirement = 40.97 inches**

**Annual Supplemental Crop Water Use:**

$$40.97 \text{ inches} \times 9060 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 13403.42 \text{ MG}$$

**1-in-10 Maximum Monthly Supplemental Crop Requirement = 5.15 inches**

**Maximum Monthly Supplemental Crop Water Use:**

$$5.15 \text{ inches} \times 9060 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 1684.83 \text{ MG}$$

**Notes:**

Evapotranspiration was calculated using a modified Blaney-Criddle method.

Average effective rainfall is the amount that is useful to crops in an average year.

2-in-10 drought rainfall is the rainfall minimum expected with a probability of 2 year in 10.

2-in-10 effective rainfall is the amount that is useful to crops in a 2-in-10 drought rainfall.

Average irrigation is the net amount that should be required for maximum yields during an average year.

2-in-10 irrigation is the net amount that should be required for maximum yields during a 2-in-10 drought year.

**Calculations Of Irrigation Requirements (1-in-10)**

**Rainfall Station:** Naples  
**Irrigation System:** Sprinkler  
**Irrigated Acreage:** 1734.00  
**Crop:** Turf Grass  
**Soil Type:** 0.40  
**Multiplier:** 1.33  
**Efficiency:** 0.75

Calculations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Average Rainfall (inches)	1.88	1.93	0.96	2.05	4.42	8.17	8.36	8.18	8.69	4.09	1.58	1.32	51.61
Evapotranspiration (inches)	1.93	2.21	3.76	5.09	6.68	7.44	7.88	7.51	6.47	5.00	3.22	2.26	59.43
Average Effective Rainfall (inches)	0.77	0.80	0.45	0.99	2.14	3.78	3.96	3.79	3.77	1.82	0.70	0.56	23.52
1-in-10 Effective Rainfall (inches)	0.62	0.87	-0.04	0.34	1.51	2.75	3.30	3.42	3.34	1.61	0.53	0.41	18.46
Average Irrigation (inches)	1.16	1.41	3.31	4.10	4.52	3.66	3.93	3.72	2.70	3.18	2.52	1.70	35.91
1-in-10 Irrigation (inches)	1.31	1.54	3.80	4.75	5.15	4.69	4.58	4.09	3.13	3.39	2.69	1.85	40.97

**1-in-10 Annual Supplemental Crop Requirement = 40.97 inches**

**Annual Supplemental Crop Water Use:**

$$40.97 \text{ inches} \times 1734 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 2565.29 \text{ MG}$$

**1-in-10 Maximum Monthly Supplemental Crop Requirement = 5.15 inches**

**Maximum Monthly Supplemental Crop Water Use:**

$$5.15 \text{ inches} \times 1734 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 322.46 \text{ MG}$$

**Notes:**

Evapotranspiration was calculated using a modified Blaney-Criddle method.

Average effective rainfall is the amount that is useful to crops in an average year.

2-in-10 drought rainfall is the rainfall minimum expected with a probability of 2 year in 10.

2-in-10 effective rainfall is the amount that is useful to crops in a 2-in-10 drought rainfall.

Average irrigation is the net amount that should be required for maximum yields during an average year.

2-in-10 irrigation is the net amount that should be required for maximum yields during a 2-in-10 drought year.

## Calculations Of Irrigation Requirements (1-in-10)

**Rainfall Station:** Naples  
**Irrigation System:** Sprinkler  
**Irrigated Acreage:** 1055.00  
**Crop:** Turf Grass  
**Soil Type:** 0.40  
**Multiplier:** 1.33  
**Efficiency:** 0.75

Calculations	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Average Rainfall (Inches)	1.88	1.93	0.96	2.05	4.42	8.17	8.38	8.18	8.69	4.09	1.56	1.32	51.61
Evapotranspiration (Inches)	1.93	2.21	3.76	5.09	6.66	7.44	7.88	7.51	6.47	5.00	3.22	2.28	59.43
Average Effective Rainfall (Inches)	0.77	0.80	0.45	0.99	2.14	3.78	3.95	3.79	3.77	1.82	0.70	0.56	23.52
1-in-10 Effective Rainfall (Inches)	0.62	0.67	-0.04	0.34	1.51	2.75	3.30	3.42	3.34	1.61	0.53	0.41	18.48
Average Irrigation (Inches)	1.16	1.41	3.31	4.10	4.52	3.66	3.93	3.72	2.70	3.18	2.52	1.70	35.91
1-in-10 Irrigation (Inches)	1.31	1.54	3.80	4.75	5.15	4.69	4.58	4.09	3.13	3.39	2.69	1.85	40.97

**1-in-10 Annual Supplemental Crop Requirement = 40.97 Inches**

**Annual Supplemental Crop Water Use:**

$$40.97 \text{ Inches} \times 1055 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 1560.77 \text{ MG}$$

**1-in-10 Maximum Monthly Supplemental Crop Requirement = 5.15 Inches**

**Maximum Monthly Supplemental Crop Water Use:**

$$5.15 \text{ inches} \times 1055 \text{ Acres} \times 1.33 \times 0.02715 \text{ MG/AC-IN} = 196.19 \text{ MG}$$

**Notes:**

Evapotranspiration was calculated using a modified Blaney-Criddle method.

Average effective rainfall is the amount that is useful to crops in an average year.

2-in-10 drought rainfall is the rainfall minimum expected with a probability of 2 year in 10.

2-in-10 effective rainfall is the amount that is useful to crops in a 2-in-10 drought rainfall.

Average irrigation is the net amount that should be required for maximum yields during an average year.

2-in-10 irrigation is the net amount that should be required for maximum yields during a 2-in-10 drought year.